Roll No. Total Pages: 02 32042 BT-2/M-19 BIOLOGY

BS-141A

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

Unit I

- Draw the diagram of Mitochondria and Chloroplast and explain the structure and function of these orgnelles. 15
- Classify the organisms on basis of cellularity. 15 2.
 - Differentiate between plant and animal cell. **(b)**

Unit II

- Classify different categories of protein and write 3. (a) their functions.
 - 15 Differentiate between DNA and RNA.
- Explain the effect of substrate concentration and (a) 15 temperature on enzyme activity.

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Write about different classes of carbohydrates and (b) 15 their functions.

Unit III

- Differentiate between mitosis and meiosis. (a)
 - Write about the symptoms and treatment of Diabetes (b) 10,5 I and II.
- morphological features 6. (a) What are the characterization of bacteria? How are they beneficial for human beings.
 - Give an experiment to prove that DNA is a genetic (b) 10,5 material.

Unit IV

- Explain the role of biology in forensic sciences and 15 agriculture.
- Write notes on the following:
 - **Bioinformatics** (i)
- Photosynthesis. (ii)

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